

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU112420\
 Data File : VU041418.D
 Acq On : 24 Nov 2020 15:20
 Operator : SY/MD
 Sample : L4849-10DL 10X
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 H4400DL

Quant Time: Nov 25 07:39:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR112320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 25 07:37:29 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.26	114	62553	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.42	117	64044	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.81	152	27978	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.60	65	18509	4.21	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.20%
7) Chloroethane-d5	1.92	69	14466	4.69	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.80%
11) 1,1-Dichloroethene-d2	2.58	63	31340	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	4.65	46	63977	57.12	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.24%
24) Chloroform-d	5.08	84	43602	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
26) 1,2-Dichloroethane-d4	5.72	65	28411	5.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	109.00%
32) Benzene-d6	5.74	84	74985	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.80%
36) 1,2-Dichloropropane-d6	6.70	67	24567	4.93	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	98.60%
41) Toluene-d8	7.91	98	58492	3.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.20%
43) trans-1,3-Dichloropropene-	8.19	79	10643	4.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.00%
46) 2-Hexanone-d5	8.64	63	45916	62.00	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	124.00%
57) 1,1,2,2-Tetrachloroethane-	10.75	84	23142	5.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	114.00%
64) 1,2-Dichlorobenzene-d4	12.19	152	25804	5.54	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	110.80%

Target Compounds

					Ovalue
3) Chloromethane	1.52	50	864	0.168 ug/L #	43
5) Vinyl chloride	1.61	62	6339	1.160 ug/L #	1
8) Chloroethane	1.98	64	643	0.207 ug/L #	48
10) 1,1,2-Trichloro-1,2,2-trif	2.58	101	210	0.048 ug/L #	21
13) Acetone	2.65	43	12049	15.918 ug/L	99
14) Carbon disulfide	2.81	76	1303	0.097 ug/L #	84
16) Methylene chloride	3.06	84	887	0.161 ug/L	78
17) Methyl tert-butyl Ether	3.38	73	11072	1.154 ug/L	99
18) trans-1,2-Dichloroethene	3.36	96	860	0.206 ug/L	96
19) 1,1-Dichloroethane	3.89	63	1349	0.162 ug/L #	86
21) 2-Butanone	4.73	43	6807	5.662 ug/L	95
22) cis-1,2-Dichloroethene	4.69	96	41313	9.300 ug/L	99
27) 1,2-Dichloroethane	5.74	62	544	0.091 ug/L #	78
33) Benzene	5.79	78	1533	0.089 ug/L	100
34) Trichloroethene	6.56	95	2885	0.617 ug/L	91
35) Methylcyclohexane	6.70	83	6189	0.907 ug/L #	15
37) 1,2-Dichloropropane	6.70	63	3093	0.656 ug/L #	90

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QLast Update : Wed Nov 25 07:37:29 2020
Response via : Initial Calibration

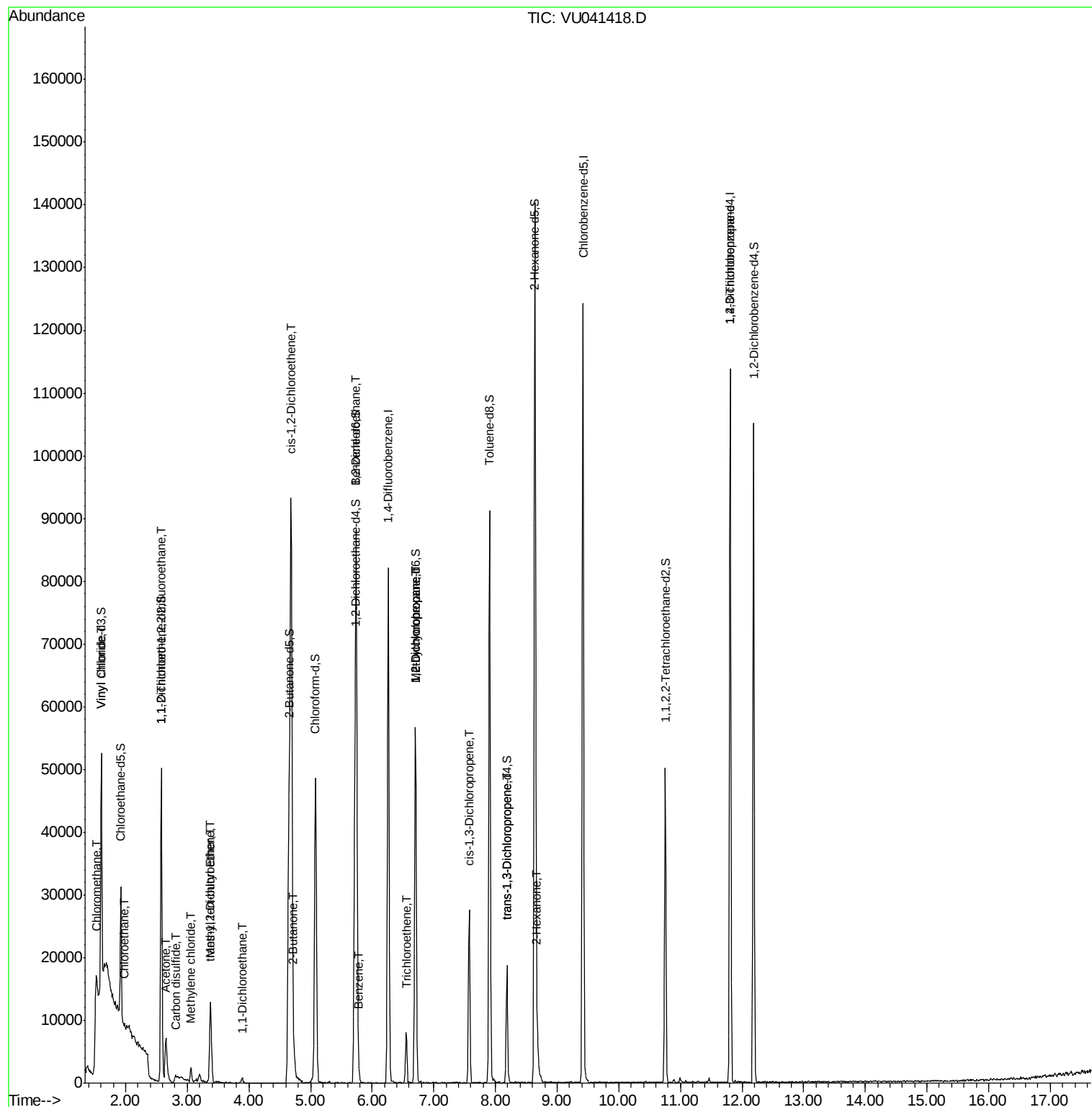
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.57	75	685	0.105	ug/L #	79
44) trans-1,3-Dichloropropene	8.19	75	472	0.080	ug/L	89
48) 2-Hexanone	8.68	43	1529	0.721	ug/L #	39
59) 1,2,3-Trichloropropane	11.81	75	3586	1.165	ug/L #	85

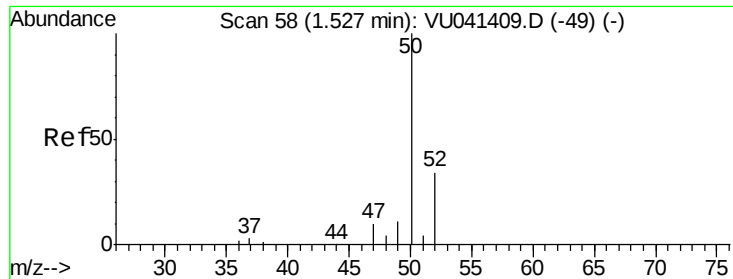
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.168 ug/L

RT: 1.52 min Scan# 56

Delta R.T. -0.01 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampled :

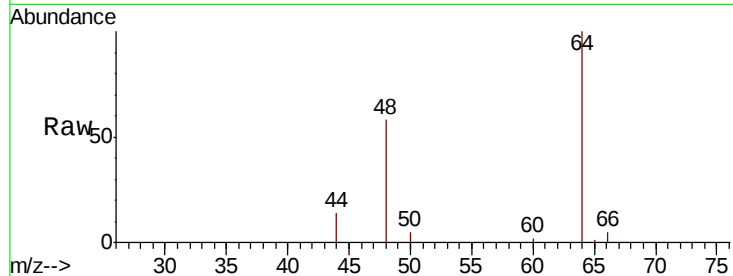
H4400DL

Tot Ion: 50 Resp: 864

Ion Ratio Lower Upper

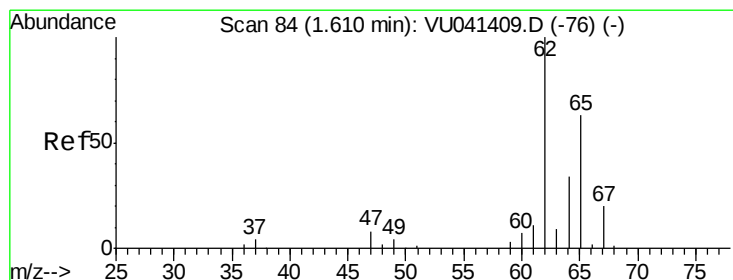
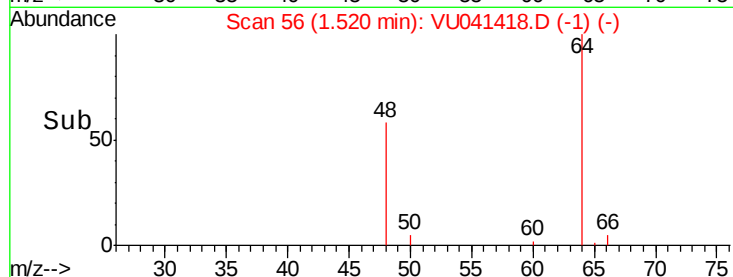
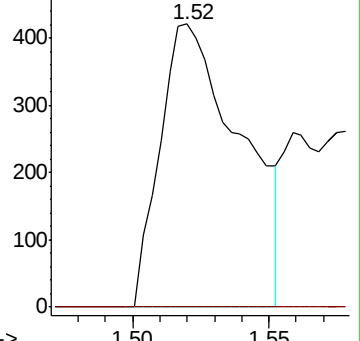
50 100

52 0.0 22.3 41.5#



Abundance Ion 50.05 (49.75 to 50.75): VU0

Ion 52.05 (51.75 to 52.75): VU0



#5

Vinyl chloride

Concen: 1.160 ug/L

RT: 1.61 min Scan# 84

Delta R.T. -0.00 min

Lab File: VU041418.D

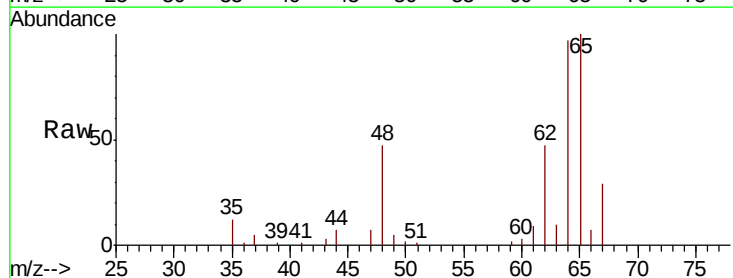
Acq: 24 Nov 2020 15:20

Tgt Ion: 62 Resp: 6339

Ion Ratio Lower Upper

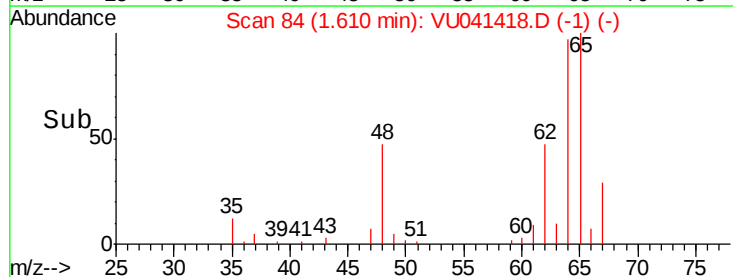
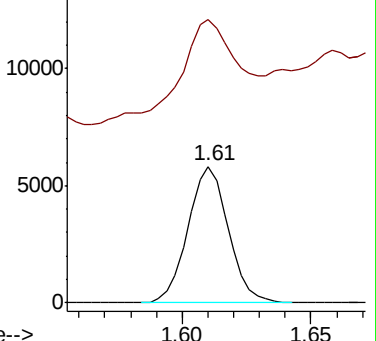
62 100

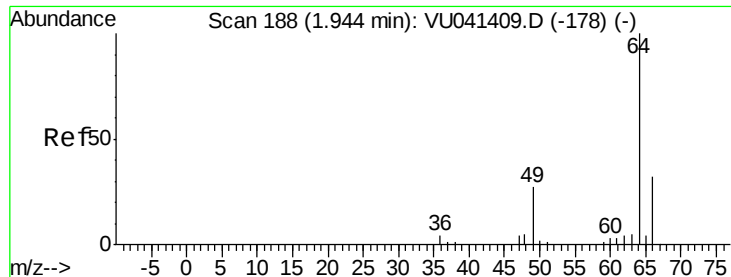
64 207.0 23.8 44.2#



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.10 (63.80 to 64.80): VU0





#8

Chloroethane

Concen: 0.207 ug/L

RT: 1.98 min Scan# 199

Delta R.T. 0.04 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampleId :

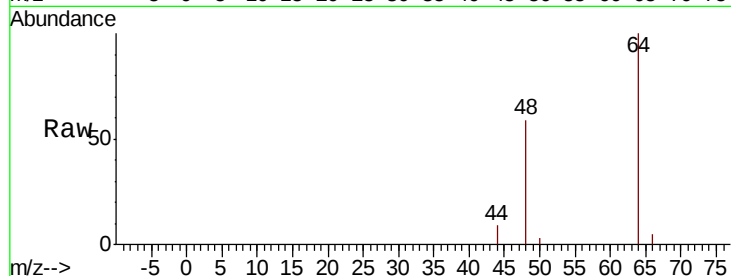
H4400DL

Tot Ion: 64 Resp: 643

Ion Ratio Lower Upper

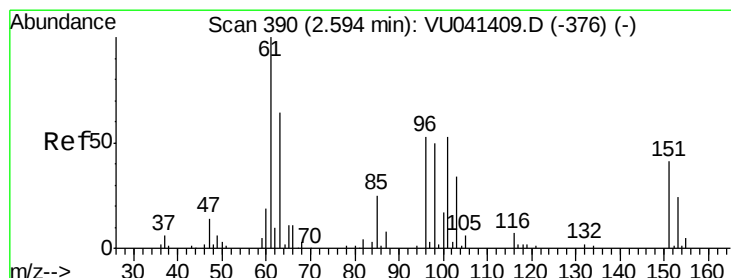
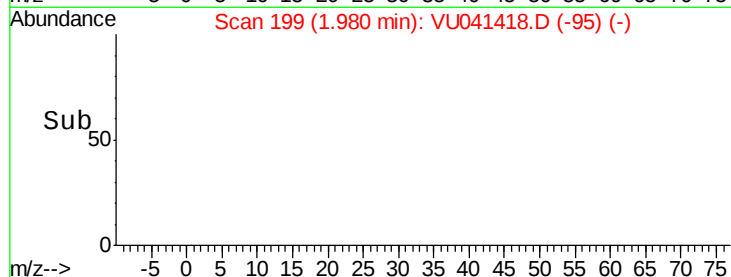
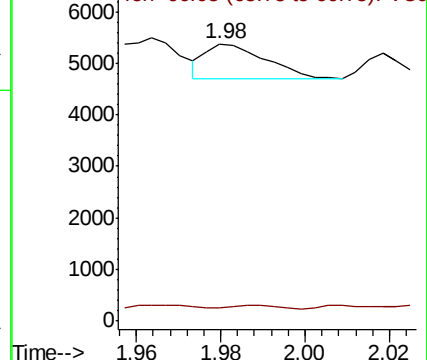
64 100

66 5.0 24.6 45.8#



Abundance Ion 64.10 (63.80 to 64.80): VU0

Ion 66.05 (65.75 to 66.75): VU0



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.048 ug/L

RT: 2.58 min Scan# 386

Delta R.T. -0.01 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

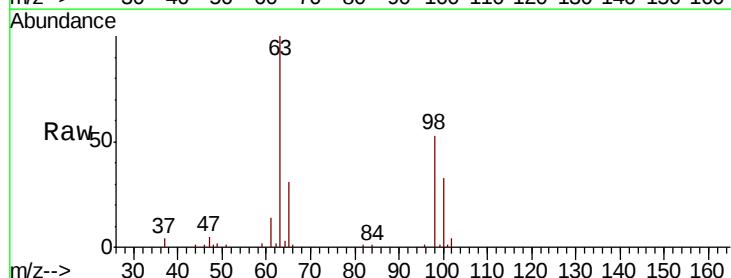
Tgt Ion: 101 Resp: 210

Ion Ratio Lower Upper

101 100

85 0.0 35.1 52.7#

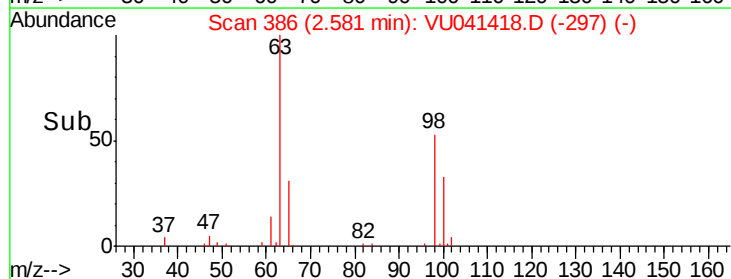
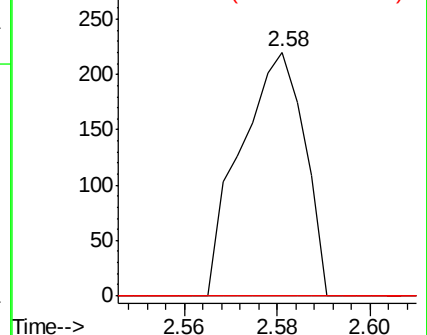
151 0.0 56.2 84.2#

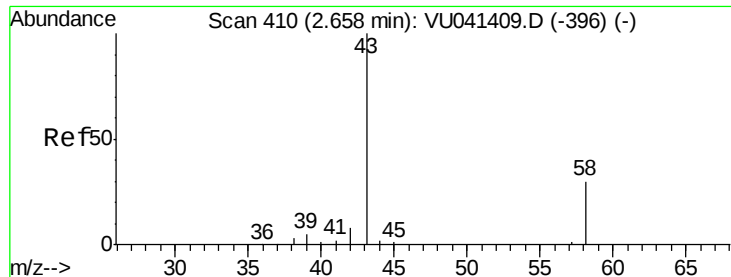


Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V





#13

Acetone

Concen: 15.918 ug/L

RT: 2.65 min Scan# 408

Delta R.T. -0.01 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampleId :

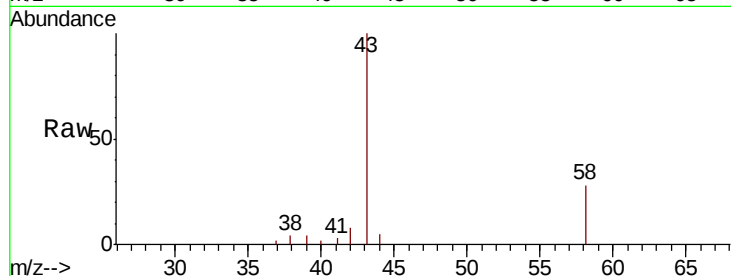
H4400DL

Tot Ion: 43 Resp: 12049

Ion Ratio Lower Upper

43 100

58 28.3 0.0 57.8



Abundance Ion 43.05 (42.75 to 43.75): VU041409.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VU041409.D (-396) (-)

2.65

5000

4000

3000

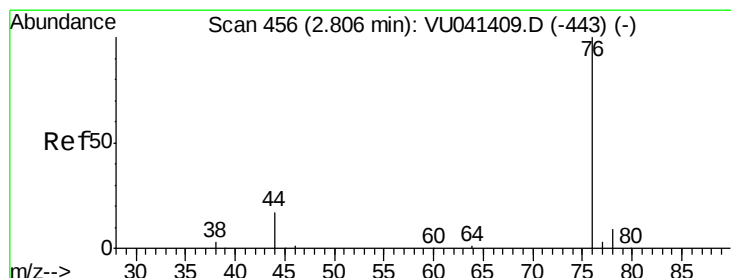
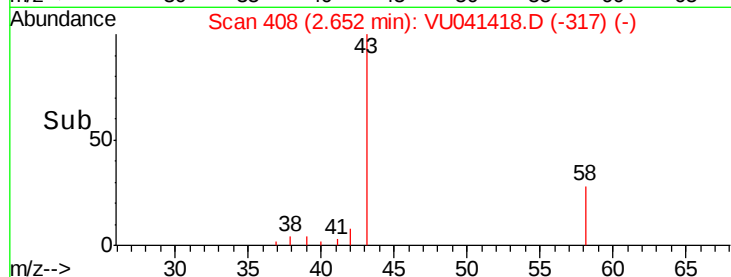
2000

1000

0

Time-->

2.55 2.60 2.65 2.70 2.75



#14

Carbon disulfide

Concen: 0.097 ug/L

RT: 2.81 min Scan# 457

Delta R.T. 0.00 min

Lab File: VU041418.D

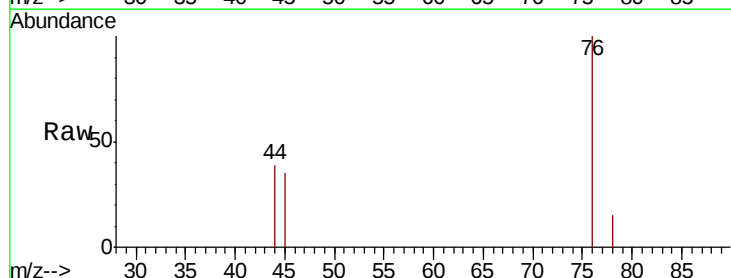
Acq: 24 Nov 2020 15:20

Tgt Ion: 76 Resp: 1303

Ion Ratio Lower Upper

76 100

78 14.6 7.0 10.6#



Abundance Ion 76.05 (75.75 to 76.75): VU041409.D (-443) (-)

Ion 78.00 (77.70 to 78.70): VU041409.D (-443) (-)

2.81

800

600

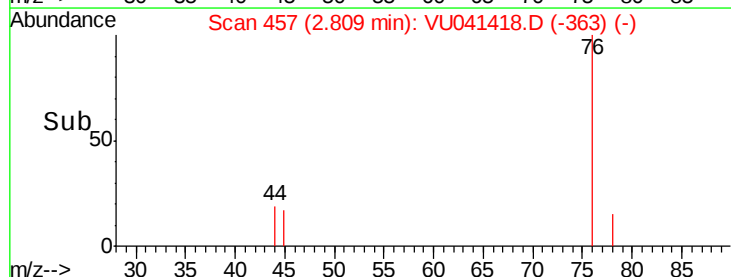
400

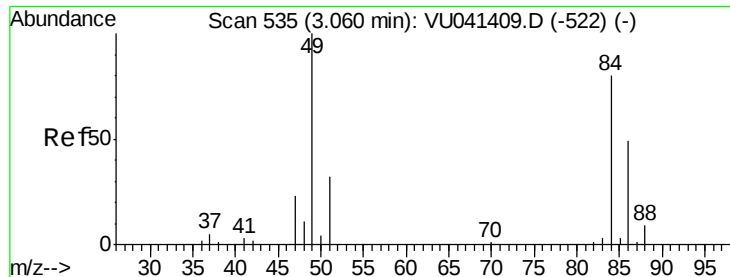
200

0

Time-->

2.75 2.80 2.85

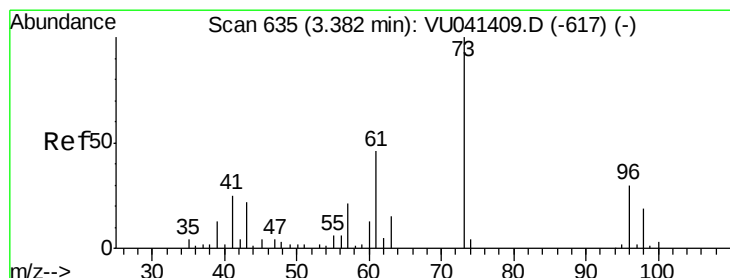
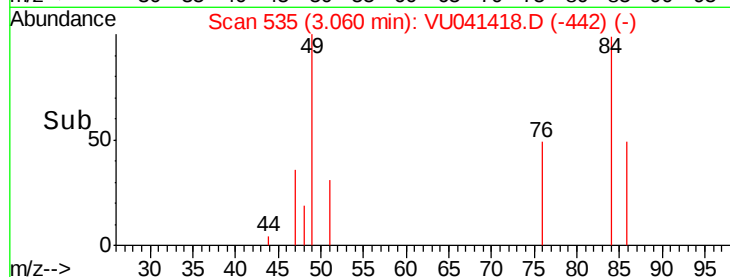
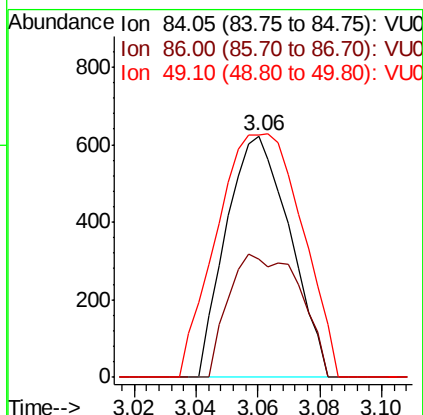
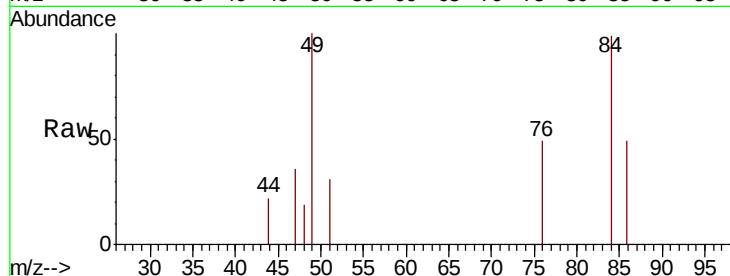




#16
Methylene chloride
Concen: 0.161 ug/L
RT: 3.06 min Scan# 535
Delta R.T. -0.00 min
Lab File: VU041418.D
Acq: 24 Nov 2020 15:20

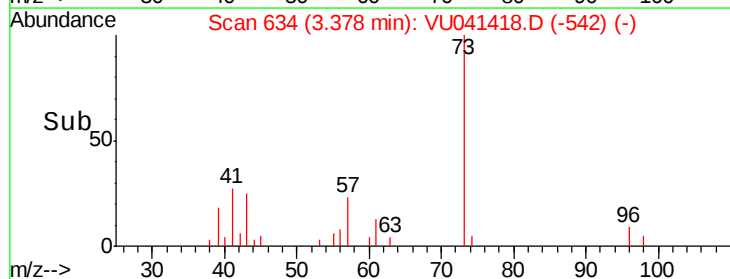
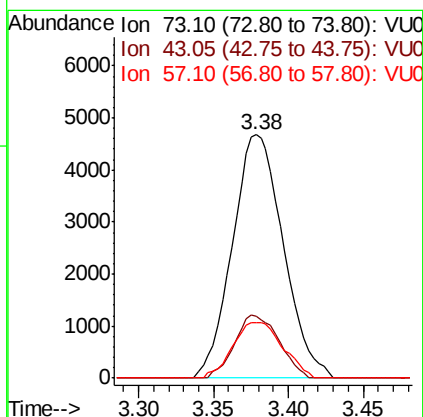
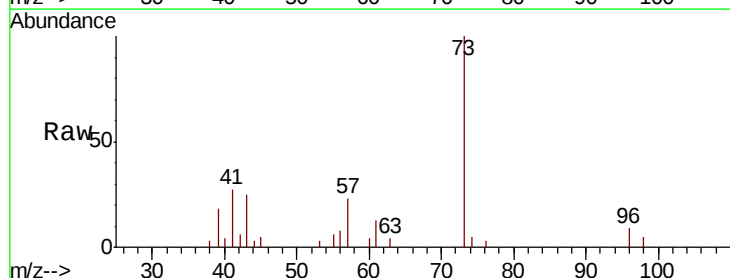
Instrument :
MSVOA_U
ClientSampleId :
H4400DL

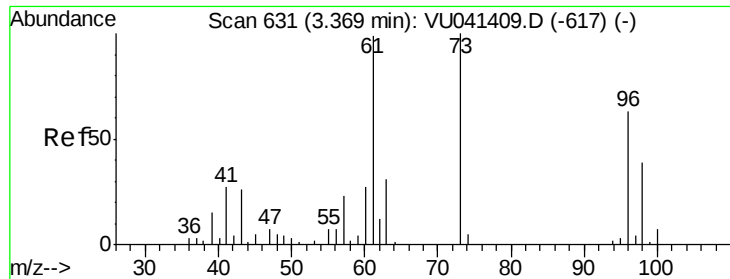
Tot Ion: 84 Resp: 887
Ion Ratio Lower Upper
84 100
86 49.2 44.4 82.5
49 100.6 89.9 167.0



#17
Methyl tert-butyl Ether
Concen: 1.154 ug/L
RT: 3.38 min Scan# 634
Delta R.T. -0.00 min
Lab File: VU041418.D
Acq: 24 Nov 2020 15:20

Tgt Ion: 73 Resp: 11072
Ion Ratio Lower Upper
73 100
43 22.4 18.3 27.5
57 22.5 17.7 26.5

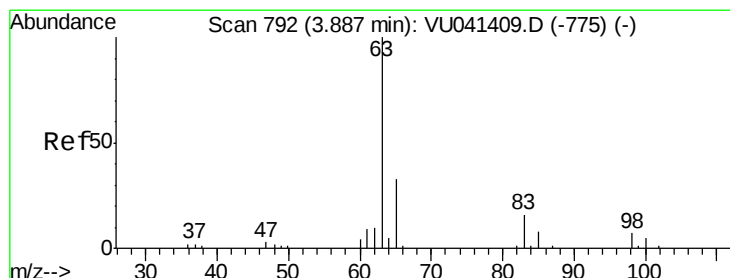
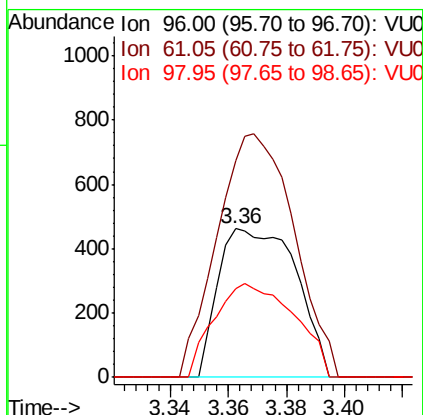
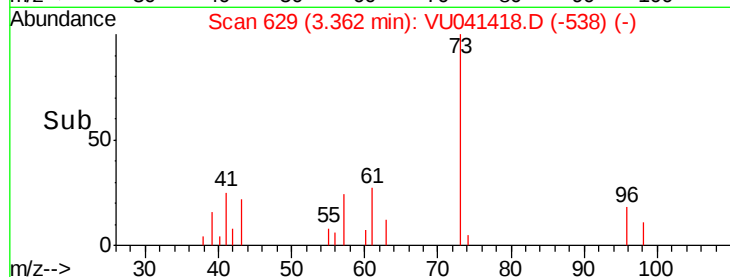
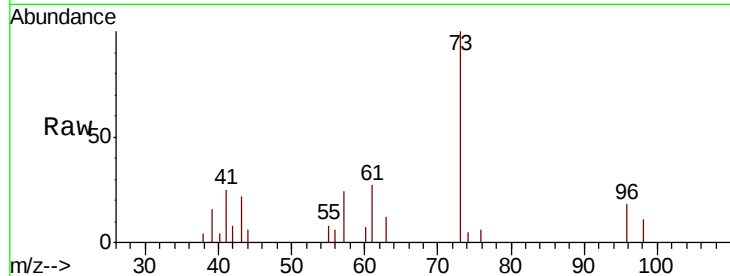




#18
trans-1,2-Dichloroethene
Concen: 0.206 ug/L
RT: 3.36 min Scan# 629
Delta R.T. -0.01 min
Lab File: VU041418.D
Acq: 24 Nov 2020 15:20

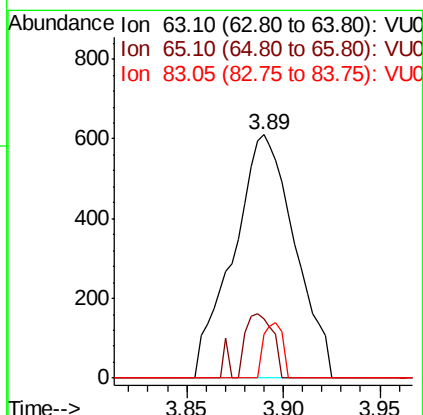
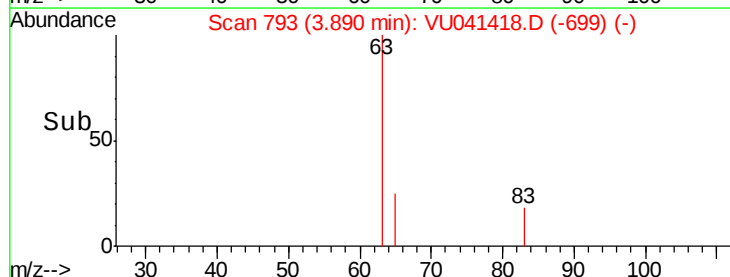
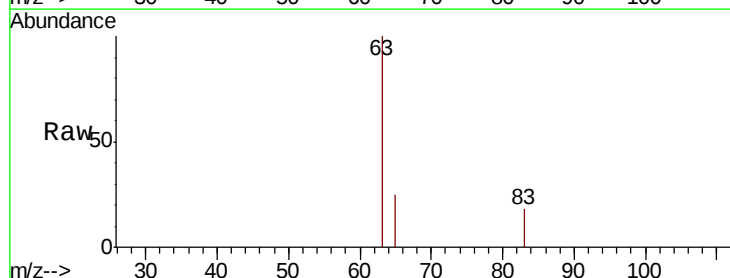
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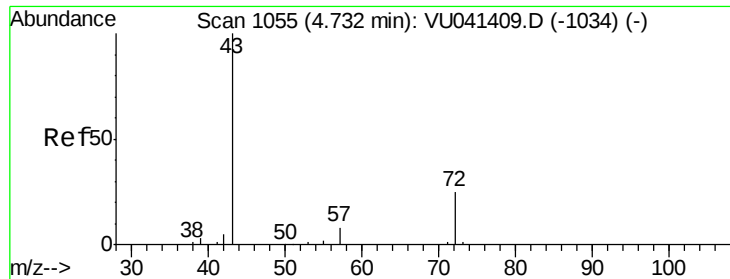
Tot Ion: 96 Resp: 860
Ion Ratio Lower Upper
96 100
61 146.2 103.7 192.5
98 59.4 47.5 88.3



#19
1,1-Dichloroethane
Concen: 0.162 ug/L
RT: 3.89 min Scan# 793
Delta R.T. 0.00 min
Lab File: VU041418.D
Acq: 24 Nov 2020 15:20

Tgt Ion: 63 Resp: 1349
Ion Ratio Lower Upper
63 100
65 24.5 23.0 42.8
83 17.8 9.4 17.4#

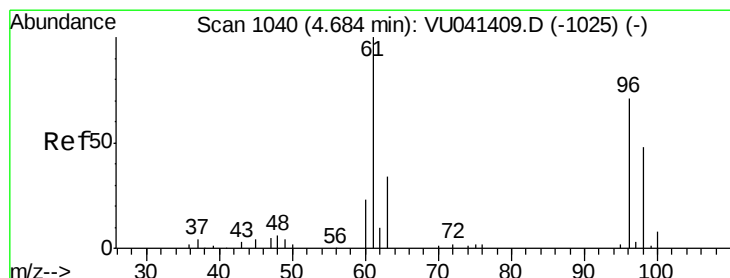
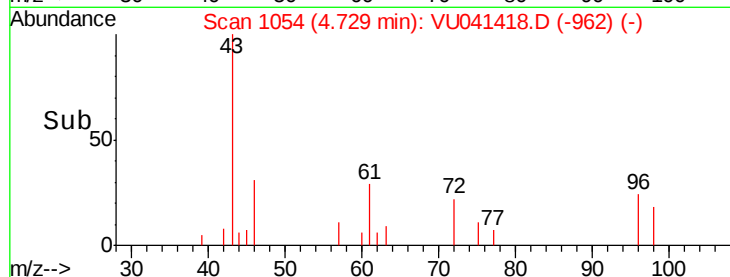
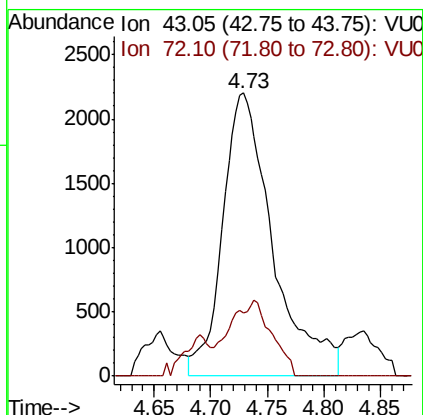
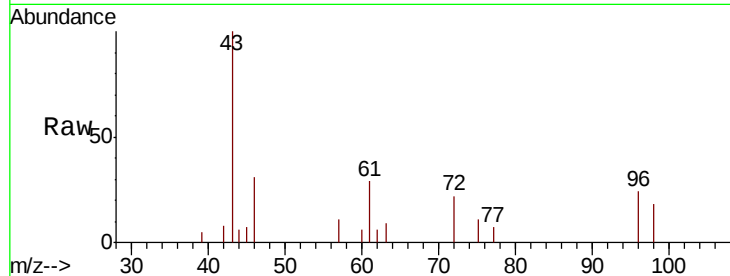




#21
2-Butanone
Concen: 5.662 ug/L
RT: 4.73 min Scan# 1054
Delta R.T. -0.00 min
Lab File: VU041418.D
Acq: 24 Nov 2020 15:20

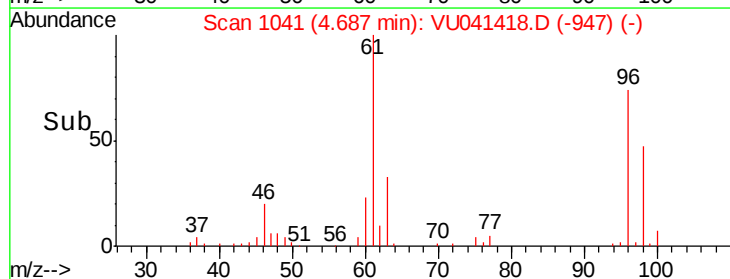
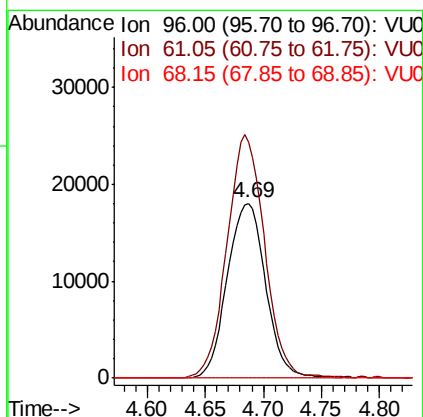
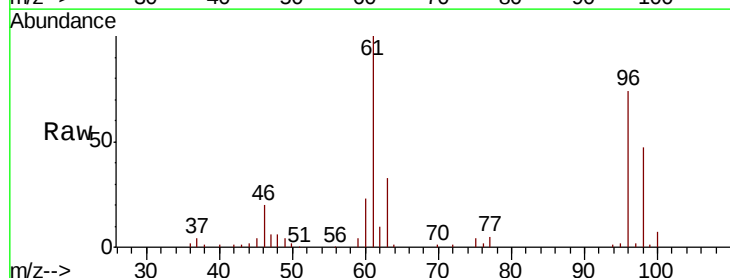
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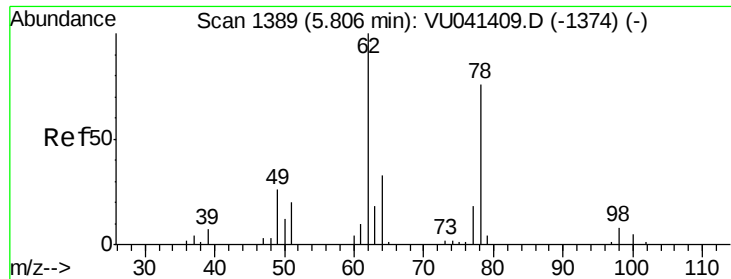
Tot Ion: 43 Resp: 6807
Ion Ratio Lower Upper
43 100
72 22.4 12.6 37.6



#22
cis-1,2-Dichloroethene
Concen: 9.300 ug/L
RT: 4.69 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VU041418.D
Acq: 24 Nov 2020 15:20

Tgt Ion: 96 Resp: 41313
Ion Ratio Lower Upper
96 100
61 135.3 95.3 176.9
68 0.0 0.0 0.0

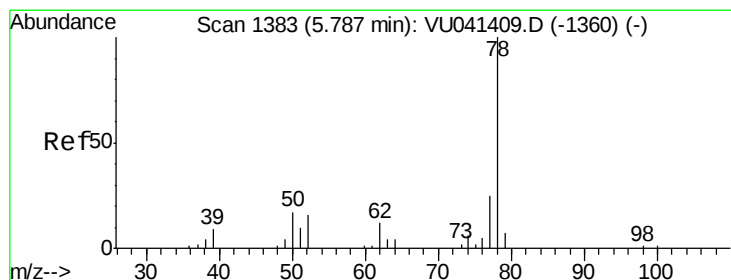
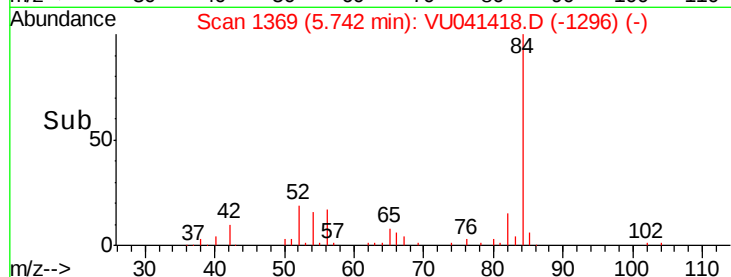
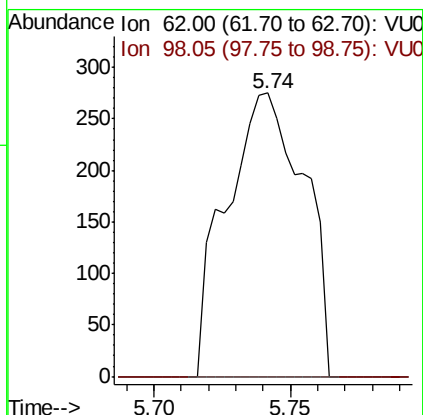
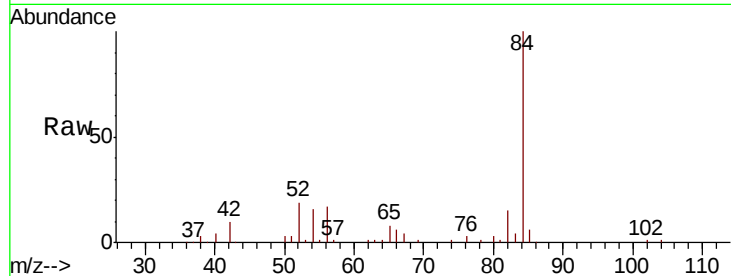




#27
 1,2-Dichloroethane
 Concen: 0.091 ug/L
 RT: 5.74 min Scan# 1369
 Delta R.T. -0.06 min
 Lab File: VU041418.D
 Acq: 24 Nov 2020 15:20

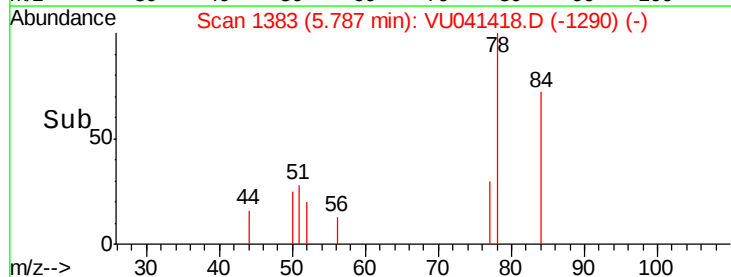
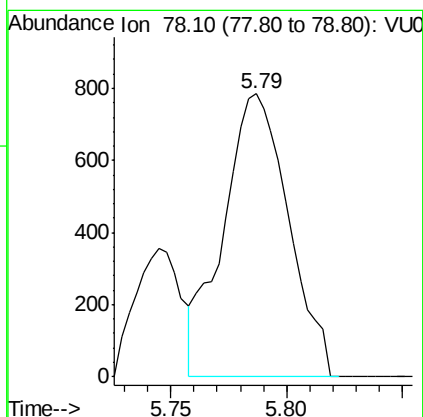
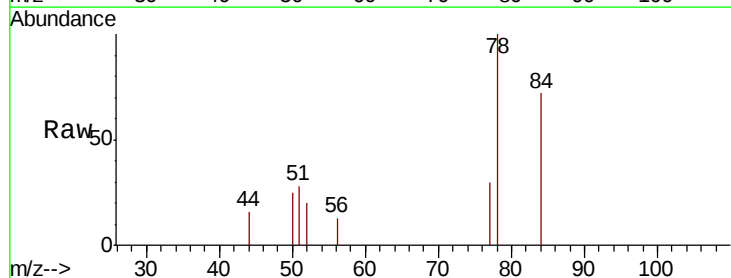
Instrument :
 MSVOA_U
 ClientSampleID :
 H4400DL

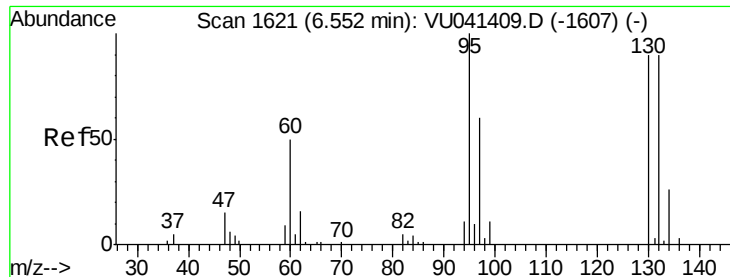
Tot Ion: 62 Resp: 544
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.0 9.0#



#33
 Benzene
 Concen: 0.089 ug/L
 RT: 5.79 min Scan# 1383
 Delta R.T. -0.00 min
 Lab File: VU041418.D
 Acq: 24 Nov 2020 15:20

Tgt Ion: 78 Resp: 1533





#34

Trichloroethene

Concen: 0.617 ug/L

RT: 6.56 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampleID :

H4400DL

Tot Ion: 95 Resp: 2885

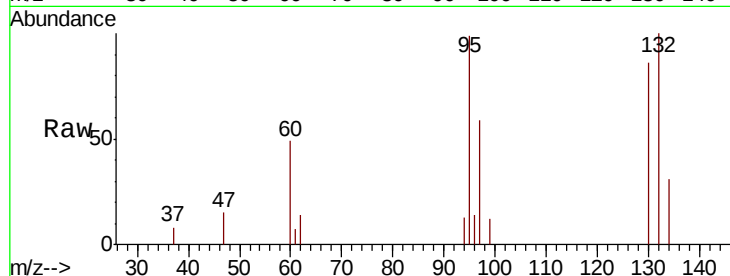
Ion Ratio Lower Upper

95 100

97 59.6 46.5 86.5

132 101.0 60.8 113.0

130 86.9 63.3 117.7



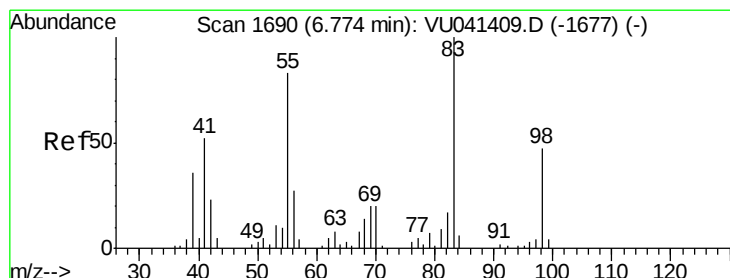
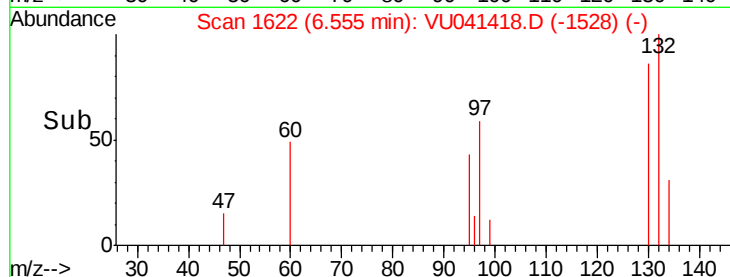
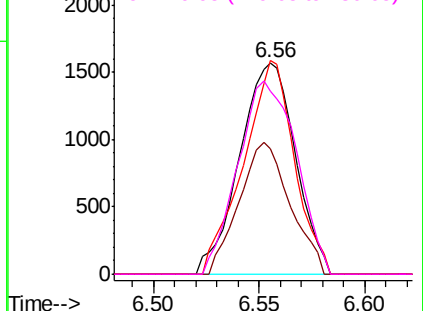
Abundance

Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 0.907 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.07 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

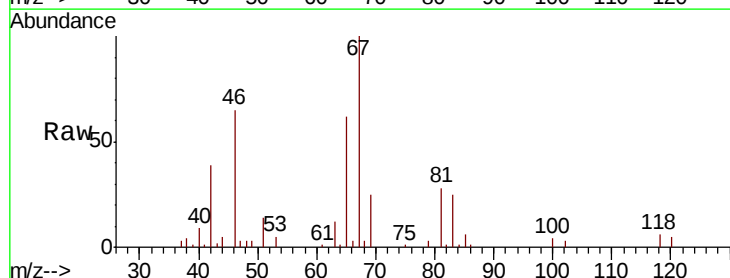
Tgt Ion: 83 Resp: 6189

Ion Ratio Lower Upper

83 100

55 0.0 68.4 102.6#

98 0.0 36.5 54.7#

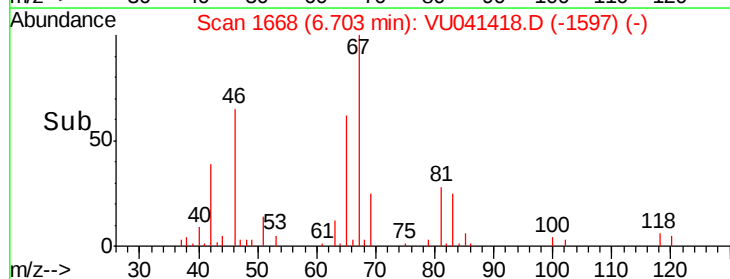
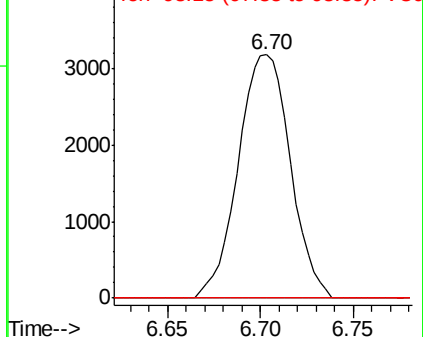


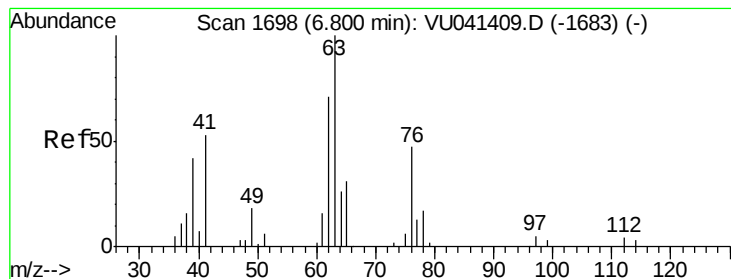
Abundance

Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 0.656 ug/L

RT: 6.70 min Scan# 1668

Delta R.T. -0.10 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampleId :

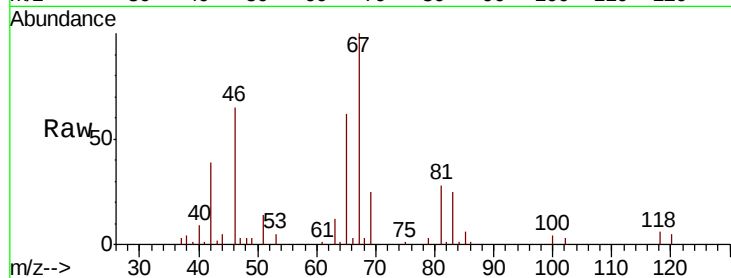
H4400DL

Tot Ion: 63 Resp: 3093

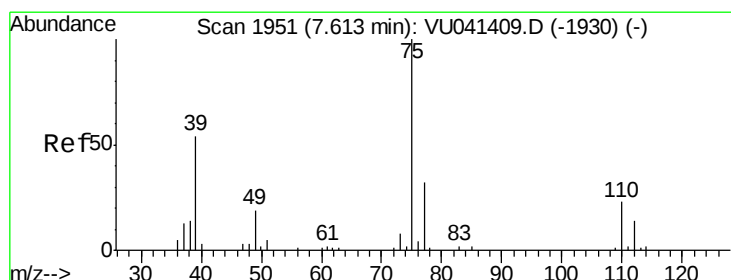
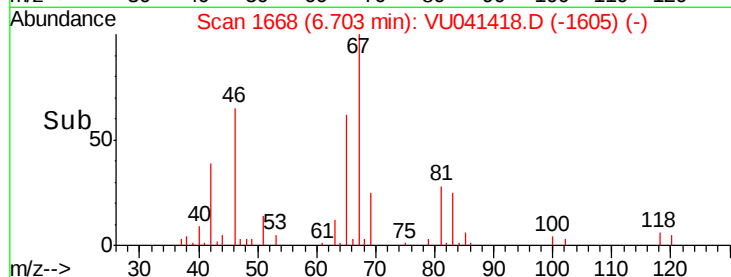
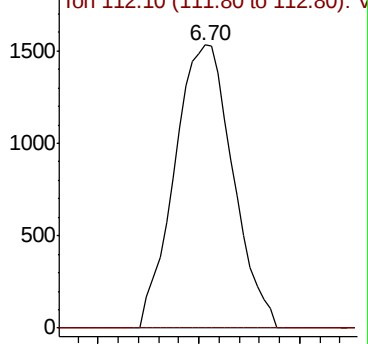
Ion Ratio Lower Upper

63 100

112 0.0 2.6 4.0#



Abundance Ion 63.10 (62.80 to 63.80): VU041418.D (-1668) (-)



#39

cis-1,3-Dichloropropene

Concen: 0.105 ug/L

RT: 7.57 min Scan# 1938

Delta R.T. -0.04 min

Lab File: VU041418.D

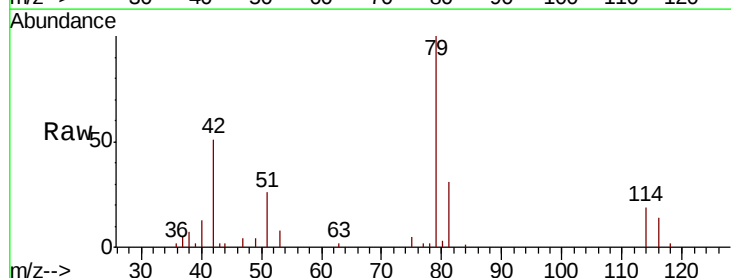
Acq: 24 Nov 2020 15:20

Tgt Ion: 75 Resp: 685

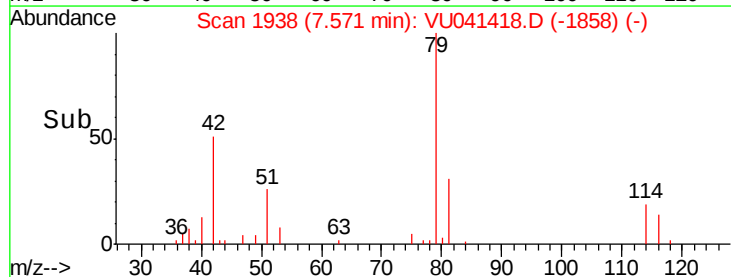
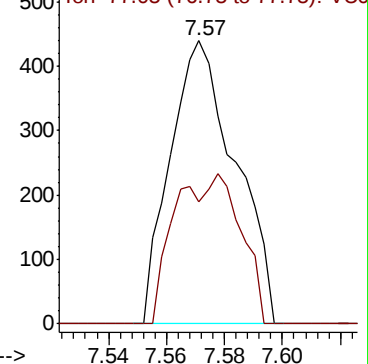
Ion Ratio Lower Upper

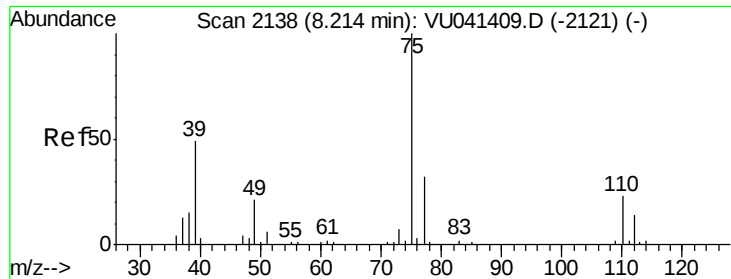
75 100

77 43.3 22.1 41.1#



Abundance Ion 75.05 (74.75 to 75.75): VU041418.D (-1938) (-)





#44

trans-1,3-Dichloropropene

Concen: 0.080 ug/L

RT: 8.19 min Scan# 2130

Delta R.T. -0.03 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampleId :

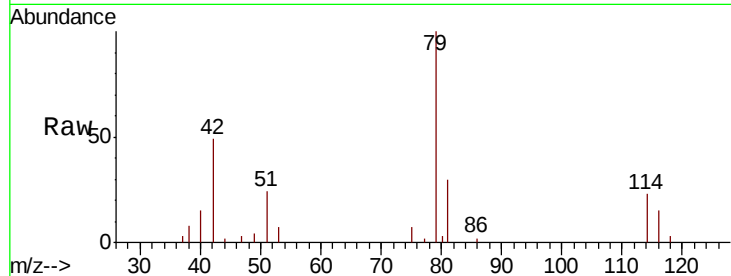
H4400DL

Tot Ion: 75 Resp: 472

Ion Ratio Lower Upper

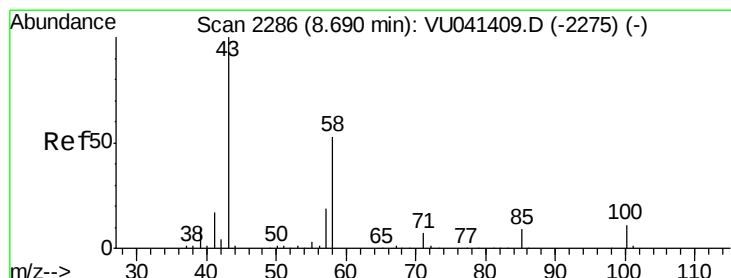
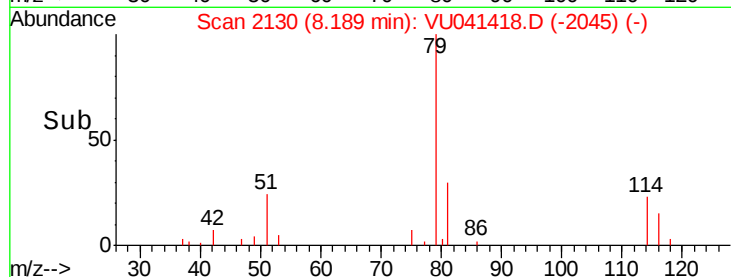
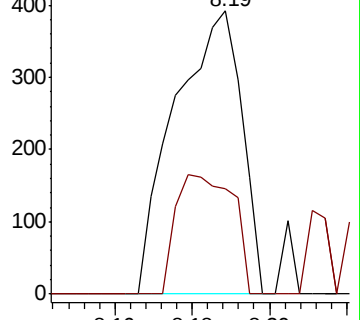
75 100

77 37.2 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VU0

Ion 77.05 (76.75 to 77.75): VU0



#48

2-Hexanone

Concen: 0.721 ug/L

RT: 8.68 min Scan# 2283

Delta R.T. -0.01 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Tgt Ion: 43 Resp: 1529

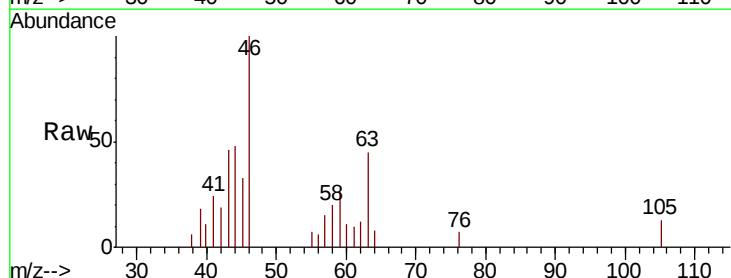
Ion Ratio Lower Upper

43 100

58 0.0 42.0 63.0#

57 0.0 15.0 22.4#

100 0.0 8.4 12.6#

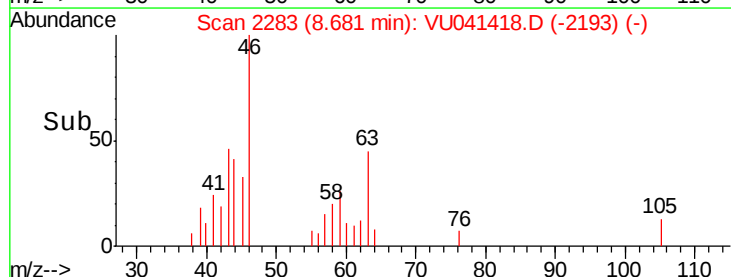
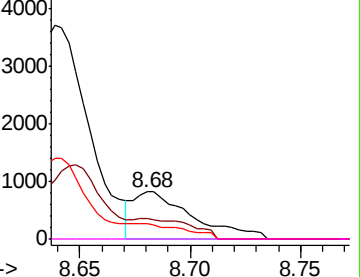


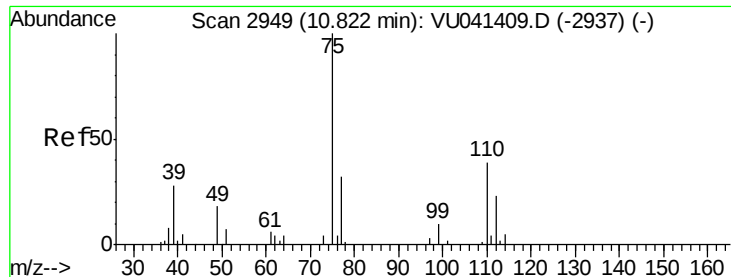
Abundance Ion 43.05 (42.75 to 43.75): VU0

Ion 58.05 (57.75 to 58.75): VU0

Ion 57.20 (56.90 to 57.90): VU0

Ion 100.15 (99.85 to 100.85): VU0





#59

1,2,3-Trichloropropane

Concen: 1.165 ug/L

RT: 11.81 min Scan# 3255

Delta R.T. 0.98 min

Lab File: VU041418.D

Acq: 24 Nov 2020 15:20

Instrument :

MSVOA_U

ClientSampleId :

H4400DL

Tot Ion: 75 Resp: 3586

Ion Ratio Lower Upper

75 100

77 39.9 25.1 37.7#

